





# Advances in the Treatment of Sickle Cell Disease

MOVING TOWARD A CURE

Complimentary Virtual Symposium May 7—8, 2025



Memorial Sloan Kettering Cancer Center

# **Overview**

The management of patients with Sickle Cell Disease (SCD) is a highly specialized field of hematology, growing in complexity due to advances in gene therapy and the rising frequency of hematopoietic stem cell transplants.

This requires that healthcare providers, particularly those new to caring for patients with Sickle Cell Disease, be well-versed in advanced treatments and the management of this vulnerable and often under-served population.

This complimentary two-day symposium offers a foundational overview and explores the latest advances in Sickle Cell Disease, including pathophysiology, advances in medical management, stem cell transplant and gene therapy, management of multisystem complications, psychosocial implications, and accessibility to the wide spectrum of care from a global health perspective.

# **Target Audience**

This symposium is **complimentary for all participants** and is intended for nurse practitioners, physician assistants, nurses, physicians, and students interested in the complex care of patients with Sickle Cell Disease.

# **Syllabus**

After the symposium concludes, attendees will receive access to an online syllabus, which will include select PDFs of faculty presentations (slides) and recorded videos.

## **Objectives**

At the conclusion of this program, learners will be able to:

- Discuss the pathophysiology and genetic implications of SCD
- Address the common complications and clinical management of patients living with SCD
- Identify unique opportunities for individualized pain management utilizing evidenced based guidelines based on pain science for patients with SCD
- Recall current clinical management of acute vaso occlusive crisis in patients with SCD
- Identify mental health challenges and issues of health care equity in this patient population.
- Recognize the role of gene therapy and hematopoietic stem cell transplant, unique complications and management of patients with SCD

This symposium is complimentary for all participants.

Register online today:

## **Symposium Planners**



**COURSE DIRECTOR** 

Joanne Torok-Castanza, MSN, RN, CPNP-PC, FNP Nurse Practitioner, Pediatric Transplantation and Cellular Therapy Program Memorial Sloan Kettering Cancer Center



PHYSICIAN SPONSOR

#### Maria Cancio, MD

Head of Clinical Operations, Pediatric Stem Cell Transplant and Cellular Therapies, Pediatric Hematology-Oncology; Associate Attending, Memorial Sloan Kettering Cancer Center Associate Professor, Weill Cornell Medical College



**APP SPONSOR** 

# **Nicole Zakak, MS, RN, CPNP, CPHON®**Director, Advanced Practice Provider Quality and Professional Development

Memorial Sloan Kettering Cancer Center

#### PLANNING COMMITTEE MEMBERS

#### Linda D'Andrea, MSN, RN, PPCNP-BC, CPHON®

Advanced Practice Provider Education Specialist Memorial Sloan Kettering Cancer Center

#### Lauren Murphy, MSN, RN, CPNP-AC

Nurse Practitioner, Pediatric Transplantation and Cellular Therapy Program Memorial Sloan Kettering Cancer Center

#### Kanayo Nwankwo, MD

Fellow, Pediatric Hematology Oncology Memorial Sloan Kettering Cancer Center

#### Natalie Sommerville-Brooks, MSN, RN, FNP-BC

Department of Hematology/Oncology Brookdale Hospital Medical Center

#### Claire Templeman, MSN, RN, CPNP-AC

Nurse Practitioner, Pediatric Transplantation and Cellular Therapy Program Memorial Sloan Kettering Cancer Center

#### PATIENT PERSPECTIVE

#### **Destiny Hannah**

## **MSK Leadership Welcome**

#### **Andrew Kung, MD, PhD**

Chair, Department of Pediatrics Lila Acheson Wallace Chair for Pediatric Research <u>Memorial Slo</u>an Kettering Cancer Center

## **Invited Faculty**

#### Nkechi Azinge-Egbiri, JD, PhD

Lecturer, Business and Commercial Law Lancaster University Lancaster, UK

#### **Nnenna Badamosi, MD**

Assistant Professor, Pediatric Hematology and Oncology, Medical College of Georgia; Director of Clinical Development, Editas Medicine Augusta, GA

#### Yvonne Carroll, RN, JD

Board Member, IASCNAPA; Director, Patient Services, Department of Hematology St. Jude Children's Research Hospital Memphis, TN

#### Sobenna George, MD

Pediatric Endocrinologist; Assistant Professor of Pediatrics Department of Pediatrics, Division of Endocrinology Emory+ Children's Pediatric Institute Atlanta, GA

#### **Christine Greco, MD**

Division Chief, Pain Medicine, Department of Anesthesiology, Critical Care and Pain Medicine, Boston Children's Hospital; Assistant Professor of Anaesthesia, Harvard Medical School Boston, MA

#### Julie Kanter, MD

Co-Director, Lifespan Comprehensive Sickle Cell Center; Professor, Division of Hematology and Oncology; Director Adult Sickle Cell Clinic University of Alabama Birmingham, AL

#### Hamda Khan, MA

Medical Anthropologist St Jude Children's Research Hospital Memphis, TN

#### Adam Levin, MD

Associate Professor; Vice Chair of Clinical Operations, Department of Orthopaedic Surgery Johns Hopkins Medical Center Baltimore, MD

#### Deepa Manwani, MD

Director of Hematology, Pediatric Hematology, Oncology and Cellular Therapy; Professor of Pediatrics Montefiore Medical Center Albert Einstein School of Medicine Bronx, NY

#### Ugochi Ogu, MD

Associate Professor of Medicine, The University of Tennessee Health Science Center; Medical Director, Diggs-Kraus Comprehensive Sickle Cell Center - Regional One Health Memphis, TN

#### Monika Paroder, MD, PhD

Associate Professor, Department of Pathology Albert Einstein College of Medicine Bronx, NY

#### Akshay Sharma, MD

Associate Member, Pediatric Bone Marrow Transplantation and Cellular Therapy St Jude Children's Research Hospital Memphis, TN

#### Lori Vick, RN, PhD

Professor of Nursing, University of South Carolina; President, International Association of Sickle Cell Nursees and Professional Associates Columbia. SC

#### Kusum Viswanathan, MD

Chair, Department of Pediatrics Brookdale Hospital Medical Center Brooklyn, NY

#### **Candice Young-Deler**

Founder, Candice's Sickle Cell Fund, Inc. Bronx, NY

#### Yaoping Zhang, MD

Visiting Associate Professor of Pediatrics; Director, Division of Pediatric Hematology/Oncology SUNY Downstate Health Sciences University Brooklyn, NY

#### **Warrior Panel**

At the close of day two, we're honored to host a Warrior Panel Discussion featuring the following panelists, sharing their insights on *Living with Sickle Cell Disease*: Stories from Those Who Know It Best.

Sasha Arias Bukola Bolarinwa Mekhai Genfi Destiny Hannah Erick Hannah Tamika Hearn Kayla Smith-Owens

This symposium is complimentary for all participants.

Register online today:

# **Schedule**

# Wednesday, May 7

7:55 AM ATTENDEE ZOOM SIGN-ON

## **Opening Remarks and Keynote Address**

MODERATOR: Joanne Torok-Castanza, MSN, RN, CPNP-PC, FNP

8:00 AM Welcome and Introduction

Joanne Torok-Castanza, MSN, RN, CPNP-PC, FNP

Nicole Zakak, MS, RN, CPNP, CPHON®

Andrew Kung, MD, PhD

8:10 AM KEYNOTE ADDRESS

Optimizing Gene Therapy for People with Sickle Cell Disease

Julia Kanter, MD

Co-Director of the Lifespan Comprehensive Sickle Cell Center Professor in the Division of Hematology and Oncology University of Alabama at Birmingham

8:40 **Q&A and Discussion** 

## Back to Basics: Foundations of Sickle Cell Disease

MODERATOR: Joanne Torok-Castanza, MSN, RN, CPNP-PC, FNP

8:50 AM Pathophysiology of Sickle Cell Disease

Deepa Manwani, MD

9:20 AM Newborn Screening and Genetic Counseling

Yvonne Carroll, RN, JD

9:50 AM Q&A and Discussion

10:00 AM BREAK

# Common Complications of Sickle Cell Disease: Diagnosis and Management

MODERATOR: Lauren Murphy, MSN, RN, CPNP-AC

10:15 AM Cardiovascular Complications of Sickle Cell Disease

Ugochi Ogu, MD

10:45 AM Renal Complications of Sickle Cell Disease

Kanayo Nwankwo, MD

11:15 AM Orthopedic Complications of Sickle Cell Disease

Adam Levin, MD

11:45 AM **Q&A and Discussion** 

11:55 AM LUNCH BREAK

# Optimizing Emergency Care for Patients with Sickle Cell Disease

MODERATOR: Maria Cancio, MD

12:35 PM Management of Acute Complications:

**Acute Chest Syndrome, Splenic Sequestration,** 

and Stroke

Yaoping Zhang, MD

1:20 PM Case Study Review: Emergencies

Yaoping Zhang, MD

1:40 AM **Q&A and Discussion** 

1:50 AM BREAK

# Supportive Care of Patients with Sickle Cell Disease: Strategies and Best Practice

MODERATOR: Claire Templeman, MSN, RN, CPNP-AC

2:00 PM Medications to Manage Sickle Cell Disease

Nnenna Badamosi, MD

2:30 PM Transfusion Considerations

Monika Paroder, MD, PhD

3:00 PM **Pain Management Considerations** 

Christine Greco, MD

3:30 PM Q&A and Discussion

3:40 PM Closing Remarks

Maria Cancio, MD

3:50 PM ADJOURNMENT

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# Thursday, May 8

7:55 AM ATTENDEE ZOOM SIGN-ON

8:00 AM Welcome and Introduction

Joanne Torok-Castanza, MSN, RN, CPNP-PC, FNP

# Innovative Therapies: Advances and Future Directions

MODERATOR: Friederike Kogel

8:10 AM Hematopoietic Stem Cell Transplant for the

**Treatment of Sickle Cell Disease** 

Maria Cancio, MD

9:10 AM Gene Therapy and Sickle Cell Disease

Akshay Sharma, MD

10:10 AM Q&A and Discussion

10:25 AM BREAK

# It Takes a Village:

## Care of the Whole Patient with Sickle Cell Disease

MODERATOR: Lauren Murphy, MSN, RN, CPNP-AC

10:40 AM Mental Health Effects and Psychosocial Implications

Lori Vick, RN, PhD

11:10 AM Transitioning to Adult Health Systems

Kusum Viswanathan, MD

11:40 AM Gonadal Function and Fertility Preservation in

**Patients with Sickle Cell Disease** 

Sobenna George, MD

12:10 PM Q&A and Discussion

12:20 PM LUNCH BREAK

# Advocating for Patients with Sickle Cell Disease: Empowerment and Action

MODERATOR: Kanayo Nwankwo, MD

1:00 PM Addressing Healthcare Equity for Patients with

Sickle Cell Disease in the United States

Hamda Khan, MA

1:30 PM Global Health Perspective

Nkechi Azinge-Egbiri, JD, PhD

2:00 PM Community Based Organization Advocacy

Candice Young-Deler

2:30 PM **Q&A and Discussion** 

2:40 PM BREAK

# Living With Sickle Cell Disease: Stories From Those Who Know it Best

MODERATORS: Natalie Sommerville-Brooks, MSN, RN, FNP-BC Claire Templeman, MSN, RN, CPNP-AC

2:50 PM Sickle Cell Disease Warrior Panel

Destiny Hannah Erick Hannah Sasha Arias

Kayla Smith-Owens

Mekhai Genfi

Tamika Hearn (mother of Mekhai)

Bukola Bolarinwa

3:40 PM **Q&A and Discussion** 

3:50 PM Closing Remarks

Maria Cancio, MD

4:00 PM ADJOURNMENT

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# **Accreditation**

Memorial Sloan Kettering Cancer Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

#### AMA CREDIT DESIGNATION STATEMENT

Memorial Sloan Kettering Cancer Center designates this live activity for a maximum of **13.25** *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### MOC/CC RECOGNITION STATEMENTS

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 13.25 credits/points in the following certification programs:

- Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification Assessment Recognition Program; and
- Lifelong Learning & Self-Assessment MOC points for the American Board of Pediatrics (**ABP**) Maintenance of Certification program.

MOC/CC points will be reported to your board within 45 days of course completion.

#### ANCC CNE STATEMENT

An application for NCPD credits has been submitted.

#### ADVANCED PRACTICE PROVIDERS

- American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.
- American Nurses Credentialing Center (ANCC) accepts AMA PRA Category 1 Credits™ from organizations accredited by the ACCME.
- National Commission on Certification of Physician Assistants (NCCPA) accepts AMA PRA Category 1 Credits<sup>™</sup> from organizations accredited by ACCME.



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